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#### In the Claims:

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1	1.	(curre	ntly amended) A connector for joining a first piece of sheet metal and a second
2		piece	of sheet metal together end-to-end, wherein said connector has a length and a
3		longit	udinal center line, wherein the first piece of sheet metal has a raw free end with
4		at leas	st one wedge-shaped reverse button lock projection thereon, and wherein the
5		secono	d piece of sheet metal has a raw free end with at least one wedge-shaped reverse
6		button	lock projection thereon and a joggle inward of the at least one wedge-shaped
7		revers	e button lock projection thereon, said connector comprising:
8		a)	a first wall;
9		b)	a second wall;
10		c)	a ledge; [[and]]
11		d)	a third wall;
		,	,
12		<u>e)</u>	a fourth wall; and
		·	
12		<u>e)</u>	a fourth wall; and
12 13		e) f) where	a fourth wall; and a flange;
12 13 14		e) f) where	a fourth wall; and a flange; in said second wall and said first wall define a first channel therebetween;
12 13 14 15		e) f) where where	a fourth wall; and a flange; in said second wall and said first wall define a first channel therebetween; in said ledge extends inwardly from said second wall;
12 13 14 15 16		e) f) where where where where	a fourth wall; and a flange; in said second wall and said first wall define a first channel therebetween; in said ledge extends inwardly from said second wall; in said ledge extends into said first channel;
12 13 14 15 16 17		e) f) where where where of shee	a flange; in said second wall and said first wall define a first channel therebetween; in said ledge extends inwardly from said second wall; in said ledge extends into said first channel; in said first channel is for lockingly receiving the raw free end of the first piece
12 13 14 15 16 17		e) f) where where where of shee	a flange; in said second wall and said first wall define a first channel therebetween; in said ledge extends inwardly from said second wall; in said ledge extends into said first channel; in said first channel is for lockingly receiving the raw free end of the first piece et metal by virtue of the at least one wedge-shaped reverse button lock projection
12 13 14 15 16 17 18		e) f) where where where of shee on the	a flange; in said second wall and said first wall define a first channel therebetween; in said ledge extends inwardly from said second wall; in said ledge extends into said first channel; in said first channel is for lockingly receiving the raw free end of the first piece et metal by virtue of the at least one wedge-shaped reverse button lock projection raw free end of the first piece of sheet metal spreading said second wall away

causing said second wall to unspread, and in so doing, causes the at least one wedge-

shaped reverse button lock projection on the raw free end of the first piece of sheet metal to be snapingly engaged onto, and lockingly captured against, said ledge, and in so doing, the first piece of sheet metal is secured in said connector; wherein said third wall terminates in a free edge; wherein said free edge of said third wall is folded inwardly onto itself so as to form a folded free edge; wherein said third wall and said first wall define a second channel therebetween; wherein said second channel is for lockingly receiving the raw free end of the second piece of sheet metal by virtue of the at least one wedge-shaped reverse button lock projection on the raw free end of the second piece of sheet metal spreading said third wall away from said first wall as the second piece of sheet metal slips through said second channel until such time as the at least one wedge-shaped reverse button lock projection on the raw free end of the second piece of sheet metal just clears said folded free edge of said third wall causing said third wall to unspread, and in so doing, causes the at least wedge-shaped reverse button lock projection on the raw free end of the second piece of sheet metal to be snapingly engaged onto, and lockingly captured against, said folded free edge of said third wall, and in so doing, the second piece of sheet metal is secured in said connector; wherein said first channel and said second channel open in opposite directions from each other for joining the first piece of sheet metal and the second piece of sheet metal together end-to-end; [[and]] wherein said first channel and said second channel are offset relative to each other, and as a result thereof, requires the joggle on the raw free end of the second piece of sheet

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metal to offset the second piece of sheet metal so as to allow insertion of the other raw

48		free end of the second piece of sheet metal into said first channel of a next connector
49		without a need for field dressing;
50		wherein said fourth wall extends from said ledge to a terminal edge;
51		wherein said flange extends outwardly from said fourth wall;
52		wherein said flange structurally stiffens said connector;
53		wherein said flange has a free edge; and
54		wherein said free edge of said flange is folded onto itself in a direction away from
55		said ledge so as to form a folded free edge.
1	2.	(original) The connector as defined in claim 1, wherein said connector is made from
2		one continuous piece of pliable sheet metal; and
3		wherein said one continuous piece of pliable sheet metal is bent, rolled, and molded
4		to form said connector.
1	3.	(original) The connector as defined in claim 2, wherein said one continuous piece of
2		pliable sheet metal has a thickness; and
3		wherein said thickness of said one continuous piece of sheet metal ranges from
4		eighteen to twenty-four gauge.
1	4.	(original) The connector as defined in claim 2, wherein said one continuous piece of
2		pliable sheet metal is galvanized sheet steel to combat corrosion.
1	5.	(original) The connector as defined in claim 1, wherein said connector is made from
2		extruded plastic.

#### 6-7. (cancelled)

1	8.	(original) The connector as defined in claim 1, further comprising an adhesive sealing
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2		compound;
3		wherein said adhesive sealing compound material is highly viscous;
4		wherein said adhesive sealing compound material fills said first channel;
5		wherein said adhesive sealing compound material adheres to said first channel;
6		wherein said adhesive sealing compound material is for adhering to the raw free end
7		of the first piece of sheet metal;
8		wherein said adhesive sealing compound material is for sealing the raw free end of the
9		first piece of sheet metal in said first channel against leakage of a material flowing
10		along the first piece of sheet metal;
11		wherein said adhesive sealing compound material fills said second channel;
12		wherein said adhesive sealing compound material adheres to said second channel;
13		wherein said adhesive sealing compound material is for adhering to the raw free end
14		of the second piece of sheet metal; and
15		wherein said adhesive sealing compound material is for sealing the raw free end of the
16		second piece of sheet metal in said second channel against leakage of a material
17		flowing along the second piece of sheet metal.
1	9.	(original) The connector as defined in claim 1, wherein said first wall is flat;
2		wherein said second wall is flat; and
3		wherein said third wall is flat.

(original) The connector as defined in claim 1, wherein said second wall is parallel to 1 10. 2 said first wall; and wherein said third wall is parallel to said first wall. 3 (original) The connector as defined in claim 1, wherein said second wall is slightly 11. 1 spaced from one side of said first wall so as to allow said first channel to be narrow; 2 3 and wherein said third wall is slightly spaced from the other side of said first wall so as to 4 5 allow said second channel to be narrow. (original) The connector as defined in claim 1, wherein said second wall is one-piece 12. 1 2 with said first wall; wherein said second wall is bent from one longitudinal edge of said first wall to fold 3 thereover in a direction towards the other longitudinal edge of said first wall; 4 5 wherein said third wall is one-piece with said first wall; and wherein said third wall is bent from the other longitudinal edge of said first wall to fold 6 7 thereunder in a direction towards said one longitudinal edge of said first wall. (original) The connector as defined in claim 1, wherein said first channel opens 1 13. 2 laterally so as to form a lateral opening; wherein said lateral opening of said first channel is for receiving the raw free end of 3 the first piece of sheet metal; 4 wherein said second channel opens laterally so as to form a lateral opening; and 5 wherein said lateral opening of said second channel is for receiving the raw free end 6

of the second piece of sheet metal.

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1	14.	(currently amended) The connector as defined in claim $[7]$ $\underline{1}$ , wherein said second
2		wall terminates in a terminal edge;
3		wherein said terminal edge of said second wall is disposed in close proximity to said
4		longitudinal center line of said connector;
5		wherein said terminal edge of said second wall is disposed to one side of said
6		longitudinal center line of said connector;
7		wherein said folded free edge of said third wall is disposed in close proximity to said
8		longitudinal center line of said connector;
9		wherein said folded free edge of said third wall is disposed to the other side of said
10		longitudinal center line of said connector;
l 1		wherein said ledge extends perpendicularly from said second wall;
12		wherein said ledge extends inwardly from said terminal edge of said second wall to a
13		terminal edge;
14		wherein said terminal edge of said ledge is slightly spaced from said first wall;
15		wherein said fourth wall extends from said terminal edge of said ledge to a terminal
16		edge; and
17		wherein said terminal edge of said fourth wall is disposed in substantial alignment with
18		said folded free edge of said third wall.
1	15.	(currently amended) The connector as defined in claim [[6]] 1, wherein said fourth
2		wall is flat;
3		wherein said fourth wall is parallel to said first wall;
4		wherein said fourth wall is parallel to said second wall; and
5		wherein said fourth wall is parallel to said third wall.
-		

2 wall has a drill rail; 3 wherein said drill rail extends said length of said connector; 4 wherein said drill rail is for preventing a self-tapping sheet metal screw being screwed 5 into said fourth wall from skipping thereacross; and 6 wherein said self-tapping sheet metal screw is for screwing into said fourth wall, the 7 first piece of sheet metal, said first wall, the second piece of sheet metal, and said third wall if required in order to comply to a local building code. 8 17. (currently amended) The connector as defined in claim 14, wherein said flange is flat. 1 wherein said flange extends outwardly from said terminal edge of said fourth wall to 2 3 a free edge; 4 wherein said flange extends in a direction away from said first wall; 5 wherein said flange extends in a direction away from said second wall; 6 wherein said flange extends in a direction away from said third wall; wherein said folded free edge of said flange further structurally stiffens said connector; 7 8 and 9 wherein said folded free edge of said flange is for eliminating a sharp edge. 1 18. (currently amended) The connector as defined in claim [[7]] 1, wherein said first wall 2 extends said length of said connector; 3 wherein said second wall extends said length of said connector; wherein said third wall extends said length of said connector; 4

(currently amended) The connector as defined in claim [[6]] 1, wherein said fourth

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wherein said ledge extends said length of said connector;

wherein said fourth wall extends said length of said connector; and wherein said flange extends said length of said connector.

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- 1 19. (currently amended) The connector as defined in claim [[7]] 1, wherein said flange has
  2 a height; and
  3 wherein said height of said flange is directly proportional to said length of said
  4 connector.
- 1 20. (original) The connector as defined in claim 19, wherein said height of said flange is 2 in a range of approximately 3/8 inches to approximately 13/8 inches.
  - by a connector, wherein the connector has a first wall, a second wall, a ledge, [[and]] a third wall, a fourth wall, and a flange, wherein the second wall of the connector and the first wall of the connector define a first channel therebetween, wherein the ledge of the connector extends inwardly from the second wall of the connector, into the first channel of the connector, wherein the third wall of the connector terminates in a free edge, wherein the free edge of the third wall of the connector is folded inwardly onto itself so as to form a folded free edge, wherein the third wall of the connector and the first wall of the connector define a second channel therebetween, wherein the first channel of the connector and the second channel of the connector open in opposite directions from each other, [[and]] wherein the first channel of the connector and the second channel of t

15	connector, wherein said flange has a free edge, and wherein said free edge of said
16	flange is folded onto itself in a direction away from said ledge so as to form a
17	folded free edge, said two pieces of sheet metal comprising:
18	a) a first piece of sheet metal; and
19	b) a second piece of sheet metal;
20	wherein said first piece of sheet metal has a raw free end;
21	wherein said raw free end of said first piece of sheet metal has at least one wedge-
22	shaped reverse button lock projection thereon;
23	wherein said second piece of sheet metal has a raw free end;
24	wherein said raw free end of said second piece of sheet metal has at least one wedge-
25	shaped reverse button lock projection thereon;
26	wherein said raw free end of said second piece of sheet metal has a joggle;
27	wherein said joggle is inward of said at least one wedge-shaped reverse button lock
28	projection on said raw free end of said second piece of sheet metal;
29	wherein said joggle on said raw free end of said second piece of sheet metal offsets
30	said second piece of sheet metal for allowing insertion of the other raw free end of said
31	second piece of sheet metal into the first channel of a next connector without a need
32	for field dressing;
33	wherein said raw free end of said first piece of sheet metal is for being lockingly
34	received in the first channel of the connector by virtue of said at least one wedge-
35	shaped reverse button lock projection on said raw free end of said first piece of sheet
36	metal spreading the second wall of the connector away from the first wall of the
37	connector as said raw free end of said first piece of sheet metal slips through the first
38	channel of the connector until such time as said at least one wedge-shaped reverse
39	button lock projection on said raw free end of said first piece of sheet metal just clears

the ledge of the connector causing the second wall of the connector to unspread, and in so doing, causes said at least one wedge-shaped reverse button lock projection on said raw free end of said first piece of sheet metal to be snapingly engaged onto, and lockingly captured against, the ledge of the connector, and in so doing, said first piece of sheet metal is secured in the connector; wherein said raw free end of said second piece of sheet metal is for being lockingly received in the second channel of the connector by virtue of said at least one wedgeshaped reverse button lock projection on said raw free end of said second piece of sheet metal spreading the third wall of the connector away from the first wall of the connector as said second piece of metal slips through the second channel of the connector until such time as said at least one wedge-shaped reverse button lock projection on said raw free end of said second piece of sheet metal just clears the folded free edge of the third wall of the connector causing the third wall of the connector to unspread, and in so doing, causes said at least wedge-shaped reverse button lock projection on said raw free end of said second piece of sheet metal to be snapingly engaged onto, and lockingly captured against, the folded free edge of the third wall of the connector, and in so doing, said second piece of sheet metal is secured in the connector.

- 1 22. (currently amended) A connector for securely receiving a piece of sheet metal, wherein 2 the piece of sheet metal has a raw free end with at least one wedge-shaped reverse 3 button lock projection thereon, said connector comprising:
- 4 a) a first wall;

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- 5 b) a second wall;
- 6 c) a ledge; [[and]]

7	d)	a third wall;		
8	<u>e)</u>	a fourth wall; and		
9	Ð	a flange;		
10	where	ein said second wall and said first wall define a channel therebetween;		
11	where	ein said ledge extends inwardly from said second wall;		
12	where	ein said ledge extends into said channel;		
13	where	wherein said channel is for lockingly receiving the raw free end of the piece of sheet		
14	metal	metal by virtue of the at least one wedge-shaped reverse button lock projection on the		
15	raw f	raw free end of the piece of sheet metal spreading said second wall away from said		
16	first v	first wall as the raw free end of the piece of sheet metal slips through said channel until		
17	such	such time as the at least one wedge-shaped reverse button lock projection on the raw		
18	free e	free end of the piece of sheet metal just clears said ledge causing said second wall to		
19	unspr	unspread, and in so doing, causes the at least one wedge-shaped reverse button lock		
20	projec	ction on the raw free end of the piece of sheet metal to be snapingly engaged onto		
21	and lo	ockingly captured against, said ledge, and in so doing, the piece of sheet metal is		
22	secur	ed in said connector;		
23	where	ein said third wall has a raw free end;		
24	where	ein said raw free end of said third wall is for insertion into said channel of a next		
25	conne	ector;		
26	where	ein said third wall has a joggle thereon;		
27	where	ein said joggle is inward of said raw free end of said third wall; [[and]]		
28	where	ein said joggle on said third wall offsets said third wall so as to allow insertion		
29	of sai	d raw free end of said third wall into said channel of said next connector without		
30	a need	d for field dressing;		
31	wher	ein said fourth wall extends from said ledge to a terminal edge;		

32		whei	rein said Hange extends outwardly from said fourth wall;	
33		wher	rein said flange structurally stiffens said connector;	
34		wher	rein said flange has a free edge; and	
35		wher	rein said free edge of said flange is folded onto itself in a direction away from	
36		<u>said</u>	ledge so as to form a folded free edge.	
37	23.	(curr	cently amended) A connector for joining a first piece of sheet metal and a second	
38		piece	e of sheet metal together end-to-end, wherein said connector has a length and a	
39		longi	longitudinal center line, wherein the first piece of sheet metal has a raw free end with	
40		at lea	at least one wedge-shaped reverse button lock projection thereon, and wherein the	
41		secoi	nd piece of sheet metal has a joggle thereon, said connector comprising:	
42		a)	a first wall;	
43		b)	a second wall;	
44		c)	a ledge; and	
45		d)	a third wall;	
46		<u>e)</u>	a fourth wall; and	
47		<u>f)</u>	a flange;	
48		wher	ein said second wall and said first wall define a first channel therebetween;	
49		wher	ein said ledge extends inwardly from said second wall;	
50		wher	ein said ledge extends into said first channel;	
51		wher	ein said first channel is for lockingly receiving the raw free end of the first piece	
52		of sh	eet metal by virtue of the at least one wedge-shaped reverse button lock projection	
53		on th	e raw free end of the first piece of sheet metal spreading said second wall away	
54		from	said first wall as the raw free end of the first piece of sheet metal slips through	
55		said t	first channel until such time as the at least one wedge-shaped reverse button lock	

projection on the raw free end of the first piece of sheet metal just clears said ledge
causing said second wall to unspread, and in so doing, causes the at least one wedge-
shaped reverse button lock projection on the raw free end of the first piece of sheet
metal to be snapingly engaged onto, and lockingly captured against, said ledge, and in
so doing, the first piece of sheet metal is secured in said connector;
wherein said third wall terminates in a free edge;
wherein said free edge of said third wall is folded inwardly onto itself so as to form a
folded free edge;
wherein said third wall and said first wall define a second channel therebetween;
wherein said second channel is for lockingly receiving the raw free end of the second
piece of sheet metal;
wherein said first channel and said second channel open in opposite directions from
each other for joining the first piece of sheet metal and the second piece of sheet metal
together end-to-end; [[and]]
wherein said first channel and said second channel are offset relative to each other, and
as a result thereof, requires the joggle on the raw free end of the second piece of sheet
metal to offset the second piece of sheet metal so as to allow insertion of the other raw
free end of the second piece of sheet metal into said first channel of a next connector
without a need for field dressing;
wherein said fourth wall extends from said ledge to a terminal edge;
wherein said flange extends outwardly from said fourth wall;
wherein said flange structurally stiffens said connector;
wherein said flange has a free edge; and
wherein said free edge of said flange is folded onto itself in a direction away from
said ledge so as to form a folded free edge

24-32. (cancelled)